

इंटरनेट

मानक

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IS 6256 (1995): Shell End Single Angle Milling Cutters [PGD
32: Cutting tools]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
कोशीय सिरे वाले कोणीय मिलिंग कटर — विशिष्ट
(पहला पुनरीक्षण)

Indian Standard

SHELL END SINGLE ANGLE MILLING
CUTTERS — SPECIFICATION

(First Revision)

UDC 621.914 : 2

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BUREAU OF INDIAN STANDARDS
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Price Group 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Milling Cutters, Saws, Gear Cutting Tool and Broaches Sectional Committee had been approved by the Production Engineering Division Council.

This standard was first published in 1971. In view of the practices prevalent in the industry this revision has been undertaken to incorporate the following modifications:

- a) Shell end single angle milling cutters having 45°, 55° and 60° angles have been included along with 50° angle already covered, hence the title of the standard has been modified.
- b) Dimensions and tolerances have been modified.
- c) New clauses for references, sampling and marking have been included.

In preparation of this standard considerable assistance has been derived from:

DIN 842 (Part 1) : 1984 'Single angle milling cutters — Dimensions', issued by Deutsches Institut für Normung (DIN).

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***SHELL END SINGLE ANGLE MILLING
CUTTERS — SPECIFICATION***(First Revision)***1 SCOPE**

This standard specifies the dimensions and general requirements for 45°, 50°, 55° and 60° shell end single angle milling cutters.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
1830 : 1982	Technical supply conditions for milling cutters (<i>second revision</i>)
6285 : 1971	Dimensions for interchangeability of milling cutters and milling arbors with key drive
7778 : 1975	Methods for sampling small tools

3 DIMENSIONS

Dimensions shall be as given in Table 1.

4 GENERAL REQUIREMENTS

4.1 Dimensions for keyway shall be in accordance with IS 6285 : 1971.

4.2 Unless otherwise specified, the cutter shall be right-hand cutting.

4.3 Material and other requirements not covered in this standard shall be as given in IS 1830 : 1982.

5 SAMPLING

The sampling and criteria of acceptance shall be in accordance with IS 7778 : 1975.

6 DESIGNATION

A shell end single angle cutter of diameter $D = 80$ mm, Angle = 50° of tool type 'H' (*see* IS 1830 : 1982) for right hand cutting and conforming to this standard shall be designated as:

Shell End Single Angle Milling Cutter
IS 6256 — 80 × 50° — H

7 MARKING

7.1 Each cutter shall be marked with the following:

- Source of manufacture or trade-mark, if any;
- Diameter; and
- Angle.

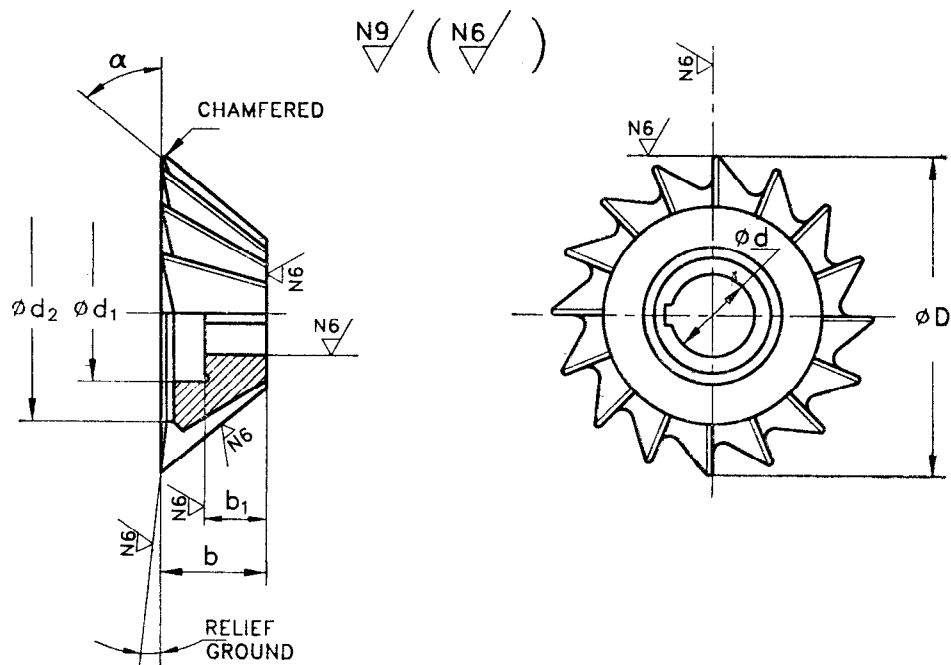
7.2 BIS Certification Mark

Each cutter may also be marked with the Standard Mark.

7.2.1 The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Table 1 Dimensions for Shell End Single Angle Milling Cutters
(Clause 3)

All dimensions in millimetres.



D js16	b js14	d H7	d_1 js15	d_2	b_1 js14	Angle α	Tol on α	Tool Type
40 50 63	10 13 18	10 13 16	15 19 23	24 30 40	5.5 7.5 12.0	45°	±25'	H
80 100 125 160	22 28 36 45	22 27 32 40	30 39 46 56	50 63 85 115	14.0 17.0 24.0 31.0		±20'	
40 50 63	13 16 20	10 13 16	15 19 23	24 30 40	8.0 10.0 12.0		±25'	
80 100 125 160	25 32 40 50	22 27 32 40	30 39 46 56	50 63 85 115	14.0 17.0 24.0 31.0	50° 55° 60°	±20'	

NOTE — The figure is indicative of dimensions only and does not specify design features.

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This Indian Standard has been developed from Doc No. PE 11 (5326)

Amendments Issued Since Publication

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